## **CLAIM AMENDMENTS:**

Please amend the claims as follows:

1. (Currently amended) A searching method for a Security Policy Database comprising:

building a peer table, wherein the peer table includes fields of peer identification, address, prefix, and type;

building a set of peer-based Security Policy Databases composed of a plurality of peer-based Security Policy Databases;

searching the peer table to locate a Security Policy Database within the set of peer-based Security Policy Databases by comparing the set of peer-based Security Policy Databases with the field of address of the peer table so as to obtain a corresponding peer-based Security Policy Database; and

searching the corresponding peer-based Security Policy Database so as to obtain a security policy;

wherein the step of building a peer table further comprises the step of building data in the peer table according to a default peer gateway; the data comprises the peer identification, the address, the type and the prefix; and the peer identification is 0, the address is 0, and the prefix is 0.

2. (Original) The searching method of claim 1, wherein the step of building a peer table further comprises the step of building at least two data in the

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peer table according to a peer gateway; according to one set of peer gateway, at least two sets of data are built in the peer table.

- 3. (Original) The searching method of claim 2, wherein one of the two data is an internal network/local area network (LAN) data, the other is an external network/wide area network (WAN) data; one of the two sets of data is a set of internal network/local area network (LAN) data and the other is a set of external network/wide area network (WAN) data.
- 4. (Original) The searching method of claim 3, wherein each of the internal network/local area network (LAN) data and the external network/wide area network (WAN) data comprises a peer identification, an address, a type and a prefix; the peer identification represents the peer gateway; the address is a network address; the type is an internal network/local area network (LAN) section type, an external network/wide area network (WAN) address type or both; the prefix is the number of the bits for comparing the address.
- 5. (Original) The searching method of claim 4, the address included in the internal network/local area network (LAN) data is an internal network/local area network (LAN) section.
  - 6. (Original) The searching method of claim 4, the address included in

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the external network/wide area network (WAN) data is an external network/wide area network (WAN) address.

- 7. (Currently amended) The searching method of claim 1, wherein, in the step of building a peer table further comprises the step of building data in the peer table according to [[a]] the default peer gateway; the data comprises a peer identification; an address, a type and a prefix; the peer identification is 0, the address is 0, the type of the data is B, and the prefix is 0 type B is defined as both an internal network/local area network (LAN) section type and an external network/wide area network (WAN) address type.
- 8. (Original) The searching method of claim 1, wherein the step of building a set of peer-based Security Policy Database further comprises the step of building a peer-based Security Policy Database according to a peer gateway for storing a security policy relating to the peer gateway; according to a plurality of peer gateways, a plurality of peer-based Security Policy Databases are built.
- 9. (Original) The searching method of claim 1, wherein the step of building a set of peer-based Security Policy Database further comprises a step of building a default peer-based Security Policy Database according to a default peer gateway for storing the security policy relating to the default peer gateway.

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10. (Original) The searching method of claim 8, wherein the step of building the peer-based Security Policy Database according to a peer gateway is according to a selector of a security policy, and the selector is a source address or a destination address.

- 11. (Original) The searching method of claim 9, the security policy relating to the default peer gateway is a by-pass security policy or a discard security policy.
- 12. (Original) The searching method of claim 1, wherein step of building a set of peer-based Security Policy Database further comprises a method for adding-in a security policy, the method comprises:

adding the security policy in the set of peer-based Security Policy Database according to a selector.

- 13. (Original) The searching method of claim 12, wherein the selector is a source address or destination address.
- 14. (Original) The searching method of claim 1, wherein the step of building a set of peer-based Security Policy Database further comprises a method for deleting a security policy, the method comprises:

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deleting the security policy from the set of peer-based Security Policy

Database according to a selector.

15. (Original) The searching method of claim 14, wherein the selector is

a source address or destination address.

16. (Original) The searching method of claim 1, wherein the step of

searching the peer table further comprises a step of comparing a packet and the

peer table.

17. (Previously presented) The searching method of claim 16, wherein

the packet is an inbound IPsec packet in tunnel mode; the comparing step is used

for comparing the source address of the outer header of the inbound IPsec packet

in tunnel mode and the external network/wide area network (WAN) address of the

peer table.

18. (Previously presented) The searching method of claim 16, wherein

the packet is an inbound IPsec packet in transport mode; the comparing step is

used for comparing the source address of the inbound IPsec packet in transport

mode and the external network/wide area network (WAN) address of the peer

table.

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19. (Original) The searching method of claim 16, wherein the packet is an inbound IP packet; the comparing step is used for comparing the source address of the inbound IP packet with the internal network/local area network (LAN) section of the peer table.

- 20. (Original) The searching method of claim 16, wherein the packet is an outbound IP packet; the comparing step is used for comparing the destination address of the outbound IP packet with the internal network/local area network (LAN) section of the peer table.
- 21. (Original) The searching method of claim 1, wherein the step of searching the peer-based Security Policy Database comprises a step for comparing a packet and the peer-based Security Policy Database.
- 22. (Previously presented) The searching method of claim 21, wherein the packet is an inbound IPsec packet in tunnel mode; the comparing step is used for comparing the inner header of the inbound IPsec packet in tunnel mode with the selector of the security policy of the peer-based Security Policy Database.
- 23. (Previously presented) The searching method of claim 21, wherein the packet is an inbound IPsec packet in transport model; the comparing step is used for comparing the header of the inbound IPsec packet in transport mode with

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the selector of the security policy of the peer-based Security Policy Database.

- 24. (Original) The searching method of claim 21, wherein the packet is an inbound IP packet; the comparing step is used for comparing the header of the inbound IP packet with the selector of the security policy of the peer-based Security Policy Database.
- 25. (Original) The searching method of claim 21, wherein the packet is an outbound IP packet; the comparing step is used for comparing the header of the outbound IP packet with the selector of the security policy of the peer-based Security Policy Database.

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